

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/083,233	10/24/2001	Walter J. Laird	1803-311-999	4738
22829	7590 01/02/2004		EXAMINER	
ROCHE MOLECULAR SYSTEMS INC			TUNG, JOYCE	
	W DEPARTMENT NTIC AVENUE		ART UNIT	PAPER NUMBER
ALAMEDA, CA 94501			1637	
•		·	DATE MAILED: 01/02/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

•			- (
	Application No.	Applicant(s)	
Office Author O	10/083,233	LAIRD ET AL.	
Office Action Summary	Examiner	Art Unit	
·	Joyce Tung	1637	
The MAILING DATE of this communicat Period for Reply	tion appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) da - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	TION. 7 CFR 1.136(a). In no event, however, may a cation. ays, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MOI by statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
1)⊠ Responsive to communication(s) filed o	on 10 September 2003.		
	This action is non-final.		
3) Since this application is in condition for closed in accordance with the practice u	allowance except for formal mat		
Disposition of Claims	•		
4) ☐ Claim(s) 1-20 is/are pending in the apple 4a) Of the above claim(s) is/are vents of the above claim(s) is/are vents of the above claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	withdrawn from consideration.		
Application Papers	·		
9) The specification is objected to by the E. 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	accepted or b) objected to n to the drawing(s) be held in abeya correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. §§ 119 and 120	the Examiner. Note the attache	d Office Action of form F 10-132.	
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for the since a specific reference was included in 37 CFR 1.78.	cuments have been received. cuments have been received in A he priority documents have beer Bureau (PCT Rule 17.2(a)). or a list of the certified copies not domestic priority under 35 U.S.C. of the first sentence of the specific	Application No received in this National Stage received. § 119(e) (to a provisional application) eation or in an Application Data Sheet.	
 a)	domestic priority under 35 U.S.C.	§§ 120 and/or 121 since a specific	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449) Paper	.948) 5) 🔲 Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152) .	

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03) Application/Control Number: 10/083,233

Art Unit: 1637

DETAILED ACTION

The amendment filed 9/10/2003 has been entered. Following the entry of the amendment the claims 1-20 are pending.

Rejections and/or objected from the previous office action are hereby withdrawn. The following rejections are either newly applied or reiterated. They constitute the complete set presently being applied to the instant application.

1. Claims 1-4, 6-8, 10-14, 16-18 and 20 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Will (US 6001,611, issued December 14, 1999) in view of Gold et al. (US 2002/-172962A1, November 21, 2002).

The response argues that the PTO has not provided any motivation for using a nucleotide modified on its sugar instead of on its base in Will's methods and all cited modified nucleotide of Gold are modified on their sugar, containing a bulky side group bound to C–2 of the sugar (page 9, lines 10-20 and page 11, lines 7-12). However, the claims do not require the modification of nucleotides on their sugar. Thus, the argument does not commemsurate to the limitation of the claims.

The response further argues that Gold teaches the use of said modified nucleotides for purposes unrelated to a nucleic acid amplification reaction. Nevertheless, Gold discloses that the modified nucleotides increase the affinity to the target (See column 36, claim 1). This teaching has motivated one of ordinary skill in the art to apply the modified nucleotide of Gold—at the 3' terminal of the primer in the method of Will to reduce non-specific amplification since Will indicates that amplifications carried out using the modified primers result in less-non specific

Application/Control Number: 10/083,233

Art Unit: 1637

amplification products (See the Abstract). Applicant's arguments filed 9/10/2003 have been fully considered but they are not persuasive. The rejection is maintained.

2. Claims 5, 9, 15 and 19 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Will (US 6001,611, issued December 14, 1999) in view of Gold et al. (US 2002/-172962A1, November 21, 2002) and in further view of Reese (WO 00/56747, September 28, 2000).

The response argues that the combination of Will and Gold does not establish prime facie obviousness against claims 1 and 11 from which claims 5, 9, 15 and 19 depend. As the reasons discussed in section 1 above, the rejection of claims 1 and 11 over Will (US 6001,611, issued December 14, 1999) in view of Gold et al. (US 2002/-172962A1, November 21, 2002) is maintained.

The response further argues that the modification of nucleotide of Reese is on their sugar. As the reasons discussed in section 1 above, the claims do not require the modification of nucleotides on their sugar. Thus, the argument does not commemsurate to the limitation of the claims. Applicant's arguments filed 9/10/2003 have been fully considered but they are not persuasive. The rejection is maintained.

Summarv

3. No claims are allowable.

Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 10/083,233

Page 4

Art Unit: 1637

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 1637

5. Any inquiries concerning this communication or earlier communications from the examiner should be directed to Joyce Tung whose telephone number is (703) 305-7112 (new phone number (571) 272-0790 after 1/22/2004). The examiner can normally be reached on Monday-Friday from 8:00 AM-4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached at (703) 308-1119 on Monday-Friday from 10:00 AM-6:00 PM.

Any inquiries of a general nature or relating to the status of this application should be directed to the Chemical/Matrix receptionist whose telephone number is (703) 308-0196.

6. Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Art Unit 1637 via the PTO Fax Center located in Crystal Mall 1 using (703) 305-3014 or 308-4242. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989).

Joyce Tung

December 17, 2003

ETHAN WHISENANT PRIMARY EXAMINER